August 15, 2001

RSAC
on
NAJPTC Project

Alan Polivka

AVP Communications and Train Control Technology

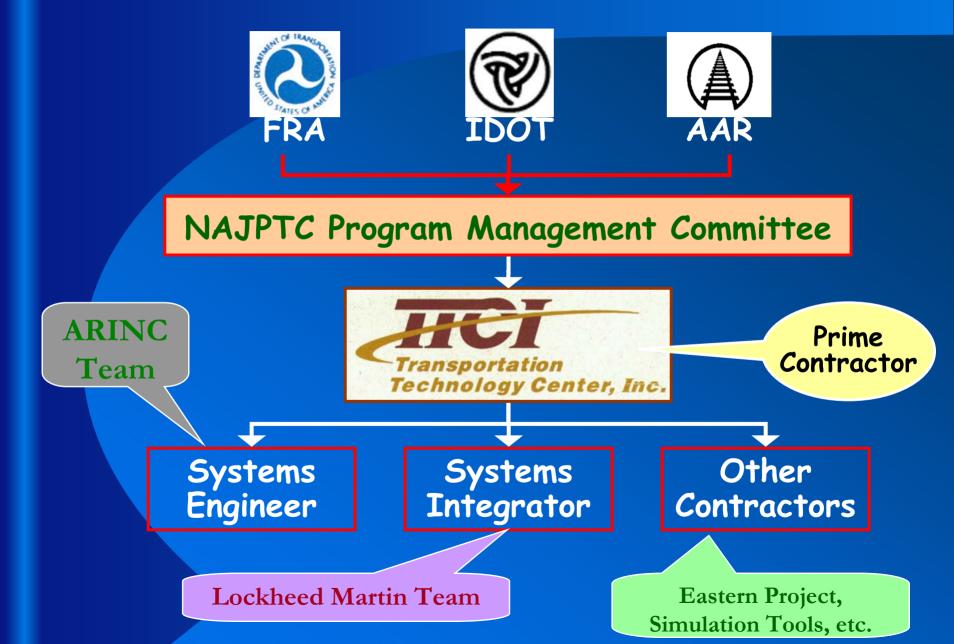
Transportation Technology Center, Inc.

Agenda

- Project Overview
 - Alan Polivka, TTCI

- Industry Standards Development
 - Howard Moody, AAR

PTC Program Management



NAJPTC Project Objectives

- Demonstrate PTC Safety Functionality
 - Prevent Train to Train Collisions
 - Enforce Speed Restrictions
 - Protect Roadway Workers Operating Under Specific Authorities
- Develop Interoperability Standards
- Obvelop and Demonstrate Revenue-Ready

 System for Operation of Passenger Trains

 Intermixed with Freight

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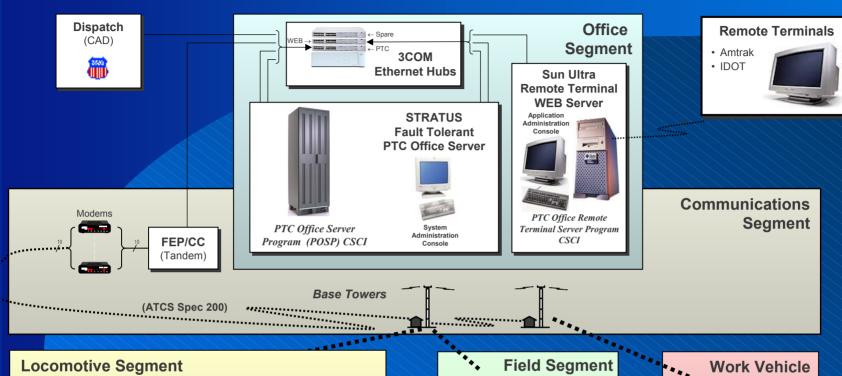
Design must be Cost-Effective

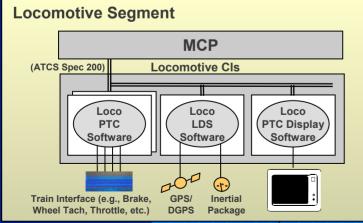
System Features

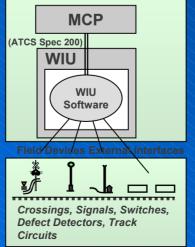
- Warnings / Enforcement of Authorities and Speeds
 - Warnings provided in advance (except emergencies)
 - Enforcement is last resort

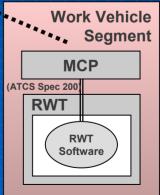
- Locomotive Activation of Crossing Warning Systems
 - Eliminates need to extend crossing warning track circuits for high speed operation
- Modular Design
- Pacing & Fine Resolution Train Tracking

IDOT PTC System Design Baseline

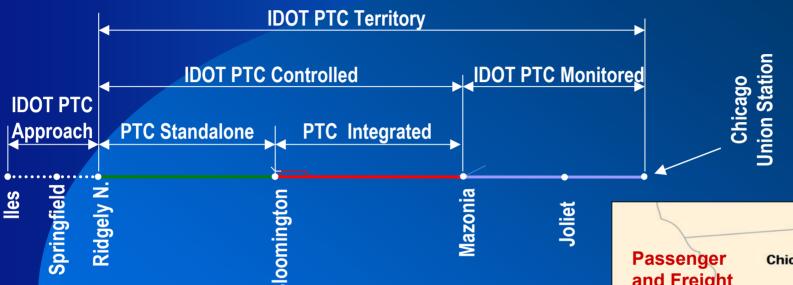






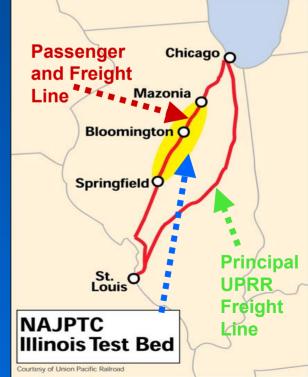


Overview of IDOT PTC Territory



Handle Mixed Traffic ...

- Passenger
- Freight
- Non-Communicating Trains



Summary

- Project is Near Midpoint in Schedule
- Preliminary Design Review (PDR) held on July 17-18 (Major Milestone)
- ManCom Satisfied with PDR, Contingent upon Resolution of Action Items Developed During Meeting
- Good Progress and Momentum to Date